Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently Amended) A method for tracing services on an application server comprising:

identifying a group of services executed on an application server, said group of services including:

a database connectivity service;

a transport protocol service for a network that said application server is coupled to;

a web based service that is implemented with a web page and a business logic component;

for each service in the group, identifying an interconnection to another one of the services in the group such that a plurality of interconnections are identified, each of the interconnections having respective entry and/or exit methods that correspond to entry and/or exit points to and/or from its corresponding service ~~a group of entry and/or exit methods to be traced, the group entry/exit methods representing entry and exit points to and from service respectively entry/exit methods representing and exit points to and from service, respectively~~;

modifying bytecode of the respective entry and/or exit methods ~~the service's bytecode based on the particular group of entry/exit methods specified~~;

executing the group of services such that the interconnections are utilized; and,

tracing invocations of the respective entry and/or exit methods ~~registering method invocations of the entry/exit methods~~.

2. (Previously Presented) The method as in claim 1 wherein the application server is a server executing object-oriented program code and wherein the group of services comprise object-oriented services.

3. (Currently Amended) The method as in claim 2 wherein ~~one of the group of~~ the transport protocol service[[s]] comprises a hypertext transport protocol ~~service~~ ("HTTP") service.

4. (Currently Amended) The method as in claim 3 wherein ~~one of~~ the ~~groups of services~~ web page comprises a servlet and/or a Java Server Page (JSP) ~~service~~ and wherein at least one of the ~~entry/exit methods comprise entry/exit methods linking~~ interconnections link the servlet and/or ~~server page service~~ JSP to the HTTP service.

5. (Canceled)

6. (Currently Amended) The method as in claim 1 wherein ~~registering~~ the tracing of the method invocations further comprises:

collecting parameters passed between the respective entry and/or exit methods ~~method-related information associated with each of the entry/exit methods responsive to the invocations~~.

7. (Currently Amended) The method as in claim 6 wherein the ~~method-related information~~ tracing of the method invocations further comprises counting a number

times that each method of ~~the~~ a set of methods is executed.

8. (Canceled)

9. (Currently Amended) The method as in claim 1 wherein the ~~entry/exit methods are entry and exit points between a service and an external system~~ group of services further comprise: an interface to a proprietary system.

10. (Currently Amended) The method as in claim 9 wherein the database connectivity service ~~is a Connector service and the~~ connects to an external ~~system is a~~ database system.

11. (Canceled)

12. (Canceled)

13. (Canceled)

14. (Currently Amended) A computer system for tracing program flow of services within an application server , the computer system comprising a memory for storing program code and a processor for processing the program code to perform the operations of:

identifying a group of services executed on an application server, said group of services including:

a database connectivity service;

a transport protocol service for a network that said application server is coupled to;

a web based service that is implemented with a web page and a business logic component;

for each service in the group, identifying an interconnection to another one of the services in the group such that a plurality of interconnections are identified, each of the interconnections having respective entry and/or exit methods that correspond to entry and/or exit points to and/or from its corresponding service ~~a group of entry and/or exit methods to be traced, the group entry/exit methods representing entry and exit points to and from service respectively entry/exit methods representing and exit points to and from service, respectively~~;

modifying bytecode of the respective entry and/or exit methods ~~the service's bytecode based on the particular group of entry/exit methods specified~~;

executing the group of services such that the interconnections are utilized; and,

tracing invocations of the respective entry and/or exit methods ~~registering method invocations of the entry/exit methods~~.

15. (Previously Presented) The system as in claim 14 wherein the application server is a server ~~executing~~ that executes object-oriented program code and wherein the group of services comprise object-oriented services.

16. (Currently Amended) The system as in claim 15 wherein ~~one of the group of~~ the transport protocol service[[s]] comprises a hypertext transport ~~service~~ protocol ("HTTP") service.

17. (Currently Amended) The system as in claim 16 wherein ~~one of~~ the ~~groups of services~~ web page comprises a servlet and/or a Java Server Page ~~service~~ (JSP) and wherein at least one of the ~~entry/exit methods comprise entry/exit methods linking~~ interconnections link the servlet and/or ~~server page service~~ JSP to the HTTP service.

18. (Canceled)

19. (Currently Amended) The system as in claim 14 wherein ~~registering~~ the tracing of the method invocations further comprises: collecting parameters passed between the entry and/or exit methods ~~method-related information associated with each of the entry/exit methods responsive to the invocations~~.

20. (Currently Amended) The system as in claim 19 wherein the ~~method-related information~~ tracing of the method invocations further comprises counting a number times that each method of ~~the~~ a set of methods is executed.

21. (Canceled)

22. (Currently Amended) The system as in claim [[19]] 14 wherein the group of services further comprise: an interface to a proprietary system ~~entry/exit methods are entry and exit points between a service and an external system~~.

23. (Currently Amended) The system as in claim 22 wherein the database connectivity service ~~is a Connector service and the~~ connects to an external ~~system is an~~ database system.

24. (Canceled)

25. Canceled

26. (Canceled)

27. (Currently Amended) The system as in claim 19 wherein the program code causes the processor to execute a handler to perform one or more specified output functions on the method invocations ~~and/or the method-related information~~.

28. (Currently Amended) The system as in claim 27 wherein one of the output functions

comprises directing information collected from the method invocations ~~and/or method-related information~~ to a display.

29. (Original) An article of manufacture including program code which, when executed by one or more processors ~~a machine~~, causes the ~~machine~~ one or more processors to perform the operations of:

identifying a group of services executed on an application server, said group of services including:

a database connectivity service;

a transport protocol service for a network that said application server is coupled to;

a web based service that is implemented with a web page and a business logic component;

for each service in the group, identifying an interconnection to another one of the services in the group such that a plurality of interconnections are identified, each of the interconnections having respective entry and/or exit methods that correspond to entry and/or exit points to and/or from its corresponding service ~~a group of entry and/or exit methods to be traced, the group entry/exit methods representing entry and exit points to and from service respectively entry/exit methods representing and exit points to and from service, respectively~~;

modifying bytecode of the respective entry and/or exit methods ~~the service's bytecode based on the particular group of entry/exit methods specified~~;

executing the group of services such that the interconnections are utilized; and,

tracing invocations of the respective entry and/or exit methods ~~registering method~~

~~invocations of the entry/exit methods~~.

30. (Previously Presented) The article of manufacture as in claim 29 wherein the application server is a server executing object-oriented program code and wherein the group of services comprise object-oriented services.

31. (Currently Amended) The article of manufacture as in claim 30 wherein ~~one of the group of~~ the transport protocol service[[s]] comprises a hypertext transport ~~service~~ protocol ("HTTP") service

32. (Currently Amended) The article of manufacture as in claim 31 wherein ~~one of~~ the ~~groups of services~~ web page comprises a servlet and/or a Java Server Page ~~service~~ (JSP) and wherein at least one of the ~~entry/exit methods comprise entry/exit methods linking~~ connections link the servlet and/or ~~server page service~~ JSP to the HTTP service.

33. (Canceled)

34. (Currently Amended) The article of manufacture as in claim 29 wherein ~~registering~~ the tracing of the method invocations further comprises:

collecting parameters passed between the entry and/or exit methods ~~method-related information associated with each of the entry/exit methods responsive to the invocations~~.

35. (Currently Amended) The article of manufacture as in claim 34 wherein the

~~method-related information~~ tracing of the method invocations further comprises counting a number times that each method of ~~the~~ a set of methods is executed.

36. - 41. (Canceled).